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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/731,170	12/06/2000	Shoichiro Usui	USUI-12N	9121
1218 75	590 11/25/2002			
CASELLA & HESPOS 274 MADISON AVENUE NEW YORK, NY 10016			EXAMINER	
			LUGO, CARLOS	
			· ART UNIT	PAPER NUMBER
			3677	
		DATE MAILED: 11/25/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	09/731,170	USUI, SHOICHIRO				
Office Action Summary	Examiner	Art Unit				
	Carlos Lugo	3677				
The MAILING DATE of this communication apperiod for Reply	pears on the cover sheet wi	tn tne correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statute  - Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).  Status	136(a). In no event, however, may a rely within the statutory minimum of thirt will apply and will expire SIX (6) MON e, cause the application to become AB	eply be timely filed  y (30) days will be considered timely.  THS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 28	October 2002					
,—	his action is non-final.					
3)☐ Since this application is in condition for allow		ters, prosecution as to the merits is				
closed in accordance with the practice under Disposition of Claims						
4) Claim(s) <u>5-14</u> is/are pending in the applicatio	n.					
4a) Of the above claim(s) <u>1-5</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>5-14</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9) The specification is objected to by the Examine		ha Fugurinas				
10) The drawing(s) filed on is/are: a) acce	•					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on 14 April 2002 is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:	•	,,,,,				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
Copies of the certified copies of the price application from the International Beautiful * See the attached detailed Office action for a list.	ureau (PCT Rule 17.2(a)).	·				
14) Acknowledgment is made of a claim for domes	•					
a) ☐ The translation of the foreign language pr 15)☐ Acknowledgment is made of a claim for domes	ovisional application has b	een received.				
Attachment(s)	•					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)				
I. C. Dojant and Trademark Office						



Art Unit: 3677

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 5,6,9 and 12-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Pat No 5,402,829 to Takikawa et al (Takikawa) in view of US Pat No 4,469,356 to Duret et al (Duret).

Regarding claim 5, Takikawa discloses a high-pressure pipe assembly comprising a metal pipe (1) having opposed first and second ends.

A connecting head (2), adjacent the first end, having a seat surface flared outwardly from the first end and a cylindrical surface extending from the seat surface away from the first end. The cylindrical surface has a selected outside diameter.

A cylindrical body extends from the connecting head toward the second end. The body has an outside diameter less than the selected diameter of the cylindrical surface. A centrally passage (1') extends through the metal pipe from the first to the second end. The passage defines an annular groove spaced from the first end.

The assembly further includes a unitary sleeve washer (4) that has opposing first and second ends. A portion of the sleeve extends from the first towards the second end.



Art Unit: 3677

However, Takikawa fails to disclose that the sleeve engages and surrounds at least a portion of the cylindrical surface of the connecting head. Takikawa discloses the use of a collar (3) that covers the cylindrical portion of the body in order to protect the connecting head.

Duret teaches that the use of a sleeve washer (14) over a cylindrical body of a metal pipe (16) is known in the art (Figure 6).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have a sleeve, as taught by Duret, into a connection as described by Takikawa, in order to protect the connecting head.

As to claim 6, Takikawa discloses that the seat surface comprises a conical generated surface.

As to claim 9, Takikawa discloses that the connecting head includes a radially aligned annular surface extending between the connecting head and the cylindrical body.

As to claim 11, Takikawa discloses that the passage has a first cylindrical portion between the annular groove and the first end and a second cylindrical portion between the annular groove and the second end. The first and second cylindrical portions defines an inside diameter less than of the annular groove.

As to claims 12-14, Takikawa illustrates that the outside diameter of the cylindrical surface is between 10-45% larger than the outside diameter of the cylindrical body.



Art Unit: 3677

3. Claims 7,8 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Pat No 5,402,829 to Takikawa et al (Takikawa) and US Pat No 4,469,356 to Duret et al (Duret) in view of US Pat No 5,109,888 to Usui.

Regarding claims 7 and 8, Takikawa, as modified by Duret, fails to disclose that the seat surface comprises an spherically generated surface or a planar end face at the first end and a flared surface extending outwardly from the planar end face.

Usui teaches a seat surface comprising a spherically generated surface or a planar end face at the first end and a flared surface extending outwardly from the planar end face.

As to claim 10, Takikawa, as modified by Duret, fails to disclose that the connecting head includes a conical generated surface extending between the connecting head and the cylindrical body.

Usui teaches that the connecting head includes a conical generated surface extending between the connecting head and the cylindrical body.

A change in the shape of a prior art device is a design consideration within the level of skill of one skilled in the art. <u>In re Dailey</u>, 357 F.2d 669, 149 USPQ 47 (CCPA 1966).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to change the shape of the seat surface because is only a design consideration.

Art Unit: 3677

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure. The patents cited further show the state of the art with respect

to high-pressure pipe couplings.

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Carlos Lugo. The examiner phone number is (703)-

305-9747. The fax number for correspondence before a final action is (703)-872-

9326 and the fax number for correspondence after final action is (703)-872-9327.

The email direction of the examiner is carlos.lugo@uspto.gov. The examiner can

normally be reached on Monday to Friday from 9:30am to 6:30pm (EST). If the

examiner is not available, please leave a message, including the application number

and the examiner will answer the message as soon as possible.

November 20, 2002

J. J. SWANN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3600

Page 5